Installation & Operational Notes for the CBS HD Distribution System DTV Audio Service Placement

0 Revision History

Revision A1 is the original release.

Revision A2 corrected language for the embedded audio.

Revision A3 corrected language for greater clarity.

Revision A4 "SAP/other" replaced "LT/RT" on CH7/8.

Revision A5 "Users" row added with corresponding network names.

1 Introduction

The chart describes placement of audio signal. It shows specific information for the two IRDs used by CBS network: Harris NETplus™ 200, and the Motorola (formerly General Instrument) DSR4800/4810 series IRD with HDD-1000 HD Decoder. Further the Dolby E decoder is shown broken to its constituent parts.

Users	UPN / CBS	CBS	CBS with 6-channel surround sound
	HDD-1000 Spigots	NETplus-200 Spigots	Dolby DP-572 Spigots
Embedded Group 1 AES 1 Channel pair 1,2	DIGITAL VIDEO/AUDIO OUTPUTS MAIN Stereo PCM L _T /R _T	VIDEO HD-SDI Dolby E encoded (inaudible data signal)	Digital Outputs CH1/2 L/R CH3/4 C/LFE CH5/6 L _S /R _S CH7/8 SAP/other
Embedded Group 1 AES 2 Channel pair 3,4	None	VIDEO HD-SDI Stereo PCM L _T /R _T	
Audio 1	None	AUDIO 1 AES3 Dolby E encoded (inaudible data signal)	Digital Outputs CH1/2 L/R CH3/4 C/LFE CH5/6 L _S /R _S CH7/8 SAP/other
Audio 2	None	AUDIO 2 AES3 Stereo PCM L _T /R _T	
Analog	ANALOG AUDIO OUT L R Monitor only, Unbalanced, Consumer levels	None	

NOTE: If you are changing from the HDD-1000 to the NETplus-200 and using stereo L_T/R_T , the embedding changes from the channel pair 1,2 to channel pair 3,4.

NOTE: When the program originates with 2-channel audio, then L_T/R_T (shown above) may have Dolby Pro Logic Surround [3/1 aka 4-in-2] or stereo [2/0]. When the program originates in 6-channel audio, then L_T/R_T has stereo [2/0] down-mixed from the 6-channels at the Broadcast Center.

2 Additional Information

The CBS Affiliate Engineering department may update this information. We will soon post a current copy to our operations website:

www.cbsoperations.com.

If you have any questions, or need access to the website, please contact:

Charles Kerman 212-975-1815 cwkerman@cbs.com Manager, Affiliate Systems Engineering CBS Broadcasting, Inc.